



52-17-04

ATTORNEY DOCKET NO.

074078.0134

PATENT APPLICATION

10/766,244

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Yingxue Li, et al.

Serial No. 10/766,244

Filing Date: January 26, 2004

Title: COMMUNICATING SIGNALS ACCORDING TO A  
QUALITY INDICATOR USING MULTIPLE ANTENNA  
ELEMENTS

**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**

Dear Sir:

CERTIFICATE OF MAILING  
BY EXPRESS MAIL

I hereby certify that this communication is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" under 37 C.F.R. § 1.10 on the date indicated below and is addressed to Commissioner For Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

*Willie Jiles*

Willie Jiles

Date: February 16, 2004

Exp. Mail Receipt No. EV 324648583 US

Information Disclosure Statement

Under 37 C.F.R. §§ 1.56, .97, and .98, Applicants respectfully request that the references listed in the attached PTO-1449 form be considered and cited in the examination of the Application. The present Application was filed after June 30, 2003. Therefore, under the July 11, 2003, waiver of 37 C.F.R. § 1.98(a)(2)(i) by the U.S. Patent and Trademark Office, copies of U.S. Patents and U.S. Patent Application Publications listed in the attached PTO-1449 form are not enclosed. Copies of all other references are enclosed for the convenience of the Examiner.

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PATENT APPLICATION  
10/766,244

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This Information Disclosure Statement has been filed before the mailing of a first Office Action on the merits. Therefore, Applicants believe no fees are due. Nonetheless, the Commissioner is hereby authorized to charge any fee and credit any overpayment to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,  
BAKER BOTTS L.L.P.  
Attorneys for Applicants



Keiko Ichiye  
Reg. No. 45,460

Date: February 16, 2004

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**Customer Number: 05073**

**Information Disclosure Citation  
in an Application**
Application No.  
10/766,244Applicant(s)  
Yingxue Li, et al.Docket Number  
074078.0134Group Art Unit  
UnassignedFiling Date  
January 26, 2004FEB 16 2004  
U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	2002/0021683A1	02-21-2002	Holtzman et al.	370	335	09-07-2001
B	2002/0008672A1	01-24-2002	Gothard et al.	343	893	05-16-2001
C	2001/0022557A1	09-20-2001	Rouphael et al.	342	367	02-02-2001
D	2001/0020915A1	09-13-2001	Proctor, Jr.	342	372	02-02-2001
E	2001/0005685	06-28-2001	Nishimori et al.	455	562	12-14-2000
F	6,549,574	04/15/03	De Bart, et al.	375	240.05	07-06-2000
G	6,369,758	04-09-2002	Zhang	342	383	11-01-2000

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
H	WO 02/13493	02-14-2002	PCT	H04M	1/00	X
I						
J						
K						

## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
L ✓	Biedka et al., <i>Smart Antenna for Handsets</i> , Bradley Department of Electrical and Computer Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0111, 5 pages.	08-02-2000
M ✓	<i>Subscriber-Based Smart Antennas</i> , CDG Digevent, Presented by Jim Proctor, Director of Technical & Strategic Marketing, Tantivy Communications, Inc., 17 pages.	11-14-2001
N ✓	Babak Daneshrad, <i>Mobile Terminal Smart Antenna Technology for CDMA Networks</i> InnovICs, 20 pages.	Broadcast on web 11-14-2001
O ✓	" <i>QUALCOMM Announces World's First Zero-IF Chipset for CDMA Devices</i> ", 3Gnewsroom.com 3G news, <a href="http://www.3gnewsroom.com/3g_news/feb_02/news_1822.shtml">http://www.3gnewsroom.com/3g_news/feb_02/news_1822.shtml</a> , 3 pages.	02-04-2002
P ✓	" <i>Qualcomm's MSM6500 to Support CDMA2000 1X, IxEV-DO and GSM/GPRS</i> ", <a href="http://www.3gnewsroom.com/3g_news/nov_02/news_2718.shtml">http://www.3gnewsroom.com/3g_news/nov_02/news_2718.shtml</a> , 2 pages.	11-13-2002
Q ✓	" <i>Qualcomm Announces New Power Management Chips for 3G Wireless Devices</i> ", <a href="http://www.3gnewsroom.com/3g_news/feb_03/news_3074.shtml">http://www.3gnewsroom.com/3g_news/feb_03/news_3074.shtml</a> , 2 pages.	02-19-2003
R ✓	QUALCOMM CDMA Technologies, " <i>MSM6500™ Chipset Solution</i> ", © 2003 QUALCOMM Incorporated, 12 pages.	09-2003

## EXAMINER

## DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. Patent and Trademark Office

PTO-1449 <b>Information Disclosure Citation in an Application</b>		Application No. 10/766,244	Applicant(s) Yingxue Li, et al.				
		Docket Number 074078.0134	Group Art Unit Unassigned	Filing Date January 26, 2004			
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
A		6,362,781	03-26-2002	Thomas et al.	342	383	06-30-2000
B		6,349,218	02-19-2002	Nakagawa et al.	455	562	01-21-1999
C		6,317,587	11-13-2001	Tiedemann, Jr., et al.	455	69	12-03-1999
D		6,307,506	10-23-2001	Despain	342	368	10-18-1999
E		6,304,215	10-16-2001	Proctor, Jr. et al.	342	372	05-25-2000
F		6,275,482	08/14/01	Jevremovic, et al.	370	334	10-28-1997
G		6,266,528	07-24-2001	Farzaneh	455	423	12-23-1998
H		6,259,683	07-10-2001	Sekine et al.	370	328	10-22-1997
I		6,236,839	05-22-2001	Gu et al.	455	67	12-16-1999
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		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
J							YES
K							NO
L							
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>				<b>DATE</b>	
M ✓		PCT Notification of Transmittal of the International Search Report or the Declaration, International Application Number PCT/US02/05650, 5 pages.				08-05-2002	
N ✓		Pending Patent Application Serial No. 10/082,351 filed February 26, 2002, entitled <i>Smart Antenna Based Spectrum Multiplexing Using A Pilot Signal</i> by Peter Cripps, et al., (Attorney Docket No. 074078.0107), 37 pages.				02-26-2002	
O ✓		Pending Patent Application Serial No. 10/131,612 filed April 25, 2002, entitled <i>Smart Antenna Based Spectrum Multiplexing Using Existing Pilot Signals For Orthogonal Frequency Division Multiplexing (OFDM) Modulations</i> by Haim Harel, et al., (Attorney Docket No. 074078.0108), 31 pages.				04-25-2002	
P ✓		Pending Patent Application Serial No. 10/141,342 filed May 9, 2002, entitled <i>Communication Device With Smart Antenna Using A Quality-Indication Signal</i> by Haim Harel, et al., (Attorney Docket No. 074078.0109), 52 pages.				05-09-2002	
Q ✓		Pending Patent Application Serial No. 10/334,205 filed December 30, 2002, entitled <i>Method and System for Adaptively Combining Signals</i> by Yingxue Li, et al., (Attorney Docket No. 074078.0104), 32 pages.				12-30-2002	
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
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		Docket Number 074078.0134	Group Art Unit Unassigned	Filing Date January 26, 2004		
<b>U.S. PATENT DOCUMENTS</b>						
	<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
A	6,195,342	02-27-2001	Rohani	370	331	11-25-1997
B	6,167,039	12-26-2000	Karlsson et al.	370	342	12-17-1997
C	6,137,840	10-24-2000	Tiedemann, Jr., et al.	375	297	11-15-1995
D	6,104,983	08-15-2000	Nakada	702	66	12-08-1997
E	5,982,327	11-9-1999	Vook et al.	342	380	01-12-1998
F	5,918,154	06/29/99	Beasley	455	11.1	08-22-1996
G	5,867,478	02-02-1999	Baum et al.	370	203	06-20-1997
H	5,771,022	06-23-1998	Vaughan et al.	343	702	04-25-1996
I	5,577,265	11-19-1996	Wheatley, III	370	335	12-07-1994
J	5,570,349	10/29/96	Bustamante, et al.	370	335	06-07-1994
K	5,375,140	12/20/94	Bustamante, et al.	375	142	11-24-1992
L	5,109,390	04-28-1992	Gilhousen et al.	370	335	11-07-1989
<b>FOREIGN PATENT DOCUMENTS</b>						
	<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
M						YES      NO
N						
O						
<b>NON-PATENT DOCUMENTS</b>						
	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
P ✓	Pending Patent Application Serial No. 60/462,625 filed April 14, 2003, entitled <i>Processing Signals Received At Multiple Antennas</i> by Yingxue Li, et al., (Attorney Docket No. 074078.0119), 22 pages.					04-14-2003
Q ✓	Pending Patent Application Serial No. 10/737,012 filed December 16, 2003, entitled <i>Adjusting A Signal At A Diversity System</i> by Yingxue Li, et al., (Attorney Docket No. 074078.0124), 37 pages.					12-16-2003
R						
S						
<b>EXAMINER</b>			<b>DATE CONSIDERED</b>			
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